

Pace Analytical Services PO Box 286 Beaver, WV 25813 TEL: (304) 255-2500 Website: www.reiclabs.com

782 North Lee Highway Lexington, VA 24450 TEL: 540.464.1880 16 Commerce Drive Westover, WV 26501 TEL: 304.241.5861

Thursday, January 03, 2019

Mr. Josh Billiter CITY OF PADEN CITY 310 S 4TH AVE. PO BOX 211 PADEN CITY, WV 26159

TEL: (304) 337-8240 FAX: (304) 337-4036

RE: DRINKING WATER
Work Order #: 18123247
Dear Mr. Josh Billiter:

Pace Analytical Services received 8 sample(s) on 12/26/2018 for the analyses presented in the following report.

Sincerely,

Scott Gross Project Manager (304) 250-6220



Pace Analytical Services - Case Narrative

Date Reported: 1/3/2019

WO#: 18123247

Original

Client: CITY OF PADEN CITY Project: DRINKING WATER

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by the Lexington and Morgantown Service Centers are designated by an annotation on the test code. All other tests were performed by Pace Analytical Services, LLC Laboratory in Beaver, WV. Subcontracted results are attached to the end of the report.

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All samples are stored for a minimum of 14 days after the date of the final report. All records are stored for a minimum of 5 years. If longer sample or records retention is required, please contact your project manager for details.

DEFINITIONS:

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:

- X: Reported value exceeds required MCL
- B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
- E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
- H: Holding time for preparation or analysis has been exceeded.
- J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
- S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148 Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839 Lexington, VA: VADCLS(VELAP) 460150

Morgantown, WV: WVDHHR 003112M, WVDEP 387

WO#: 18123247

Date Reported: 1/3/2019

Original

Client: CITY OF PADEN CITY Collection Date: 12/26/2018 8:54:00 AM

 Project:
 DR INKING WATER
 Date Received:
 12/26/2018

 Lab ID:
 18123247-01A
 Matrix:
 Drinking Water

 Client Sample ID:
 707 N 4TH AVE
 Site ID:
 33-0-5204

Analysis	Result		Result MDL PQL MCL Qual		Units	Date Analyzed NELAP	
COLIFORM BY P/A - MORGANTO	WN:		Method:	COLISUF	RE		Analyst: RM
E-Coli	ABSENT	NA	NA	NA		NA	12/26/2018 2:35 PM
Total Coliform	ABSENT	NA	NA	NA		NA	12/26/2018 2:35 PM

WO#: 18123247

Date Reported: 1/3/2019

Original

Client: CITY OF PADEN CITY Collection Date: 12/26/2018 9:35:00 AM

 Project:
 DRINKING WATER
 Date Received:
 12/26/2018

 Lab ID:
 18123247-02A
 Matrix:
 Drinking Water

 Client Sample ID:
 320 S 4TH AVE
 Site ID:
 33-0-5204

Analysis	Result		Result MDL PQL MCL Qual		Units	Date Analyzed NELAP	
COLIFORM BY P/A - MORGANTO	WN:		Method:	COLISUE	RE		Analyst: RM
E-Coli	ABSENT	NA	NA	NA		NA	12/26/2018 2:35 PM
Total Coliform	ABSENT	NA	NA	NA		NA	12/26/2018 2:35 PM

WO#: 18123247

Date Reported: 1/3/2019

Original

Client: CITY OF PADEN CITY Collection Date: 12/26/2018 9:48:00 AM

 Project:
 DR INKING WATER
 Date Received:
 12/26/2018

 Lab ID:
 18123247-03A
 Matrix:
 Drinking Water

 Client Sample ID:
 309 S 1ST AVE
 Site ID:
 33-0-5204

Analysis	Result		Result MDL PQL MCL Qual		Units	Date Analyzed NELAP	
COLIFORM BY P/A - MORGANTO	WN:		Method:	COLISUI	RE		Analyst: RM
E-Coli	ABSENT	NA	NA	NA		NA	12/26/2018 2:35 PM
Total Coliform	ABSENT	NA	NA	NA		NA	12/26/2018 2:35 PM

WO#: 18123247

Date Reported: 1/3/2019

Original

Client: CITY OF PADEN CITY Collection Date: 12/26/2018 9:38:00 AM

 Project:
 DR INKING WATER
 Date Received:
 12/26/2018

 Lab ID:
 18123247-04A
 Matrix:
 Drinking Water

 Client Sample ID:
 320 S 4TH AVE
 Site ID:
 33-0-5204

Analysis	MDL	PQL	MCL	Qual Units	Date Analyzed NELAP		
ANIONS by ION CHROMATOGRA		Method: (1993)	EPA 300).0, Rev.2.1	Analyst: CF		
Fluoride	0.26	0.05	0.20	4.00	mg/L	12/27/2018 10:55 AM	PA/VA

WO#: 18123247

Date Reported: 1/3/2019

Original

Client: CITY OF PADEN CITY Collection Date: 12/26/2018 9:06:00 AM

Project:DRINKING WATERDate Received:12/26/2018Lab ID:18123247-05AMatrix:Drinking WaterClient Sample ID:WATER PLANT RAWSite ID:33-0-5204

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed NELAP
VOLATILE ORGANIC COMPOUNI	os		Method: 4.1	EPA 524	4.2, Re	٧.	Analyst: ES
Tetrachloroethene	14.7	0.250	0.500	5.00	Χ	μg/L	12/28/2018 6:19 AM
Surr: 1,2-Dichlorobenzene-d4	75.2	NA	70-130	NA		%Rec	12/28/2018 6:19 AM
Surr: 4-Bromofluorobenzene	88.6	NA	70-130	NA		%Rec	12/28/2018 6:19 AM

WO#: 18123247

Date Reported: 1/3/2019

Original

Client: CITY OF PADEN CITY Collection Date: 12/26/2018 9:09:00 AM

Project:DRINKING WATERDate Received:12/26/2018Lab ID:18123247-06AMatrix:Drinking WaterClient Sample ID:WATER PLANT FINISHSite ID:33-0-5204

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed NELAP
VOLATILE ORGANIC COMPOUND	S		Method: 4.1	EPA 524	1.2, Re	/ .	Analyst: ES
Tetrachloroethene	6.83	0.250	0.500	5.00	Χ	μg/L	12/28/2018 6:48 AM
Surr: 1,2-Dichlorobenzene-d4	75.0	NA	70-130	NA		%Rec	12/28/2018 6:48 AM
Surr: 4-Bromofluorobenzene	89.7	NA	70-130	NA		%Rec	12/28/2018 6:48 AM

WO#: 18123247

Date Reported: 1/3/2019

Original

Client: CITY OF PADEN CITY Collection Date: 12/26/2018 9:37:00 AM

 Project:
 DR INKING WATER
 Date Received:
 12/26/2018

 Lab ID:
 18123247-07A
 Matrix:
 Drinking Water

 Client Sample ID:
 320 S 4TH AVE
 Site ID:
 33-0-5204

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed NELAP
VOLATILE ORGANIC COMPOUND	S		Method: 4.1	EPA 524	4.2, Rev	r *	Analyst: ES
Tetrachloroethene	5.98	0.250	0.500	5.00	Χ	μg/L	12/28/2018 11:07 AM
Surr: 1,2-Dichlorobenzene-d4	78.2	NA	70-130	NA		%Rec	12/28/2018 11:07 AM
Surr: 4-Bromofluorobenzene	92.3	NA	70-130	NA		%Rec	12/28/2018 11:07 AM

WO#: 18123247

Date Reported: 1/3/2019

Original

Client: CITY OF PADEN CITY Collection Date: 12/26/2018 12:00:00 AM

Project:DRINKING WATERDate Received:12/26/2018Lab ID:18123247-08AMatrix:Trip BlankClient Sample ID:TRIP BLANKSite ID:33-0-5204

Analysis	Result	MDL	PQL	MCL	Qual Units	Date Analyzed NELAP
VOLATILE ORGANIC COMPOU	NDS		Method: 4.1	EPA 524	l.2, Rev.	Analyst: ES
Tetrachloroethene	ND	0.250	0.500	5.00	μg/L	12/28/2018 12:04 PM
Surr: 1,2-Dichlorobenzene-d4	77.5	NA	70-130	NA	%Rec	12/28/2018 12:04 PM
Surr: 4-Bromofluorobenzene	91.6	NA	70-130	NA	%Rec	12/28/2018 12:04 PM



Pace Analytical Services, LLC. PO Box 684056 Chicago, IL 60695-4056

TEL: (304)255-2500 Website: www.reiclabs.com

Sample Receipt Checklist

Client Name	e:	PAD00	11								Work	Order Number:	18123247
RCPNo:		1		Date and	l Time	Receiv	/ed:		12/26/2018	3 10:10:	3 6 PM R	eceived by:	Holly Glisan
Completed	Ву:	Noa	h Gill						Reviewed	Ву:	Billy Shi	rley	
Completed	Date:	12/2	6/2018 10	:23:53 Pi	/I				Reviewed	Date:	12/27/20	18 9:51 AM	
Carrier	r Nar	ne:	Pace										
1.	Cha	in of cus	stody pres	ent?							Yes x	No 🔲	
2.	Cha	in of cus	stody sign	ed when r	elinqui	shed a	nd recei	ived?			Yes x	No 🗌	
3.	Are	matrices	s correctly	identified	on Ch	ain of	custody?	?			Yes	No 🗌	
4.	ls it	clear wh	nat analys	es were r	equest	ed?					Yesx	No 🔲	_
5.	Cus	tody sea	als intact?								Yes 🔲	No 🔲	Not Present x
6.	Sam	ples in	proper co	ntainer typ	e and	preser	vative?				Yes X	No 🔲	
7.	Wer	e correc	t preserva	atives note	d on C	COC?					Yes x	No 🗌	NA 🗌
8.	Sam	ple con	tainers int	act?							Yes x	No 🗌	
9.	Suffi	cient sa	mple volu	me for inc	licated	test?					Yes x	No 🔲	
10.	Wer	e contai	ner labels	complete	?						Yes x	No 🔲	
11.	Alls	amples	received v	within hold	ling tin	ne?					Yes x	No 🔲	
12.	Was	an atte	mpt made	to cool th	e sam	ples?					Yes x	No 🗌	NA 🗌
13.	Sam	ple Ten	np. taken a	and record	ded up	on rece	eipt?				Yes x	No 🔲	To 0.2 °C
14.	Wate	er - Wer	e bubbles	absent ir	voc	vials?					Yes x	No 🗌	No Vials
15.	Are	Sample	s conside	ed accep	able?						Yes X	No 🔲	
16.	COC	C filled o	ut proper	ly?							YesX	No 🔲	
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